Product Specifications

Speaker Impedance	table	4 ohms
Free Air Resonance	(Fs)	35
Total Q Driver @ FS including all resistance's	(Qts)	0.692
Q of the Driver @ FS including non electrical resistance only	(Qms)	5.403
Q of the Driver @ FS including electrical resistance only	(Qes)	0.793
The Driver's compliance expressed as an equivalent Volume of all (cubic Ft.)	(Vas)	2.055
The Driver's linear displacement (inches)	(Xmax)	0.197
The DC resistance of the driver's single voice coils(ohm)	(Re)	3.6
Thermal Power rating of Driver (R.M.S./Peak)	(Pe)	500W/1000W
The Driver's sensitivity (dB)	(Sens)	95

Calculating Enclosures

It is difficult to give exact box dimensions that are universal for all cars and trucks. It is for this reason that you must be able to calculate the space in which you have available in order to achieve the proper air volume required.

It is recommended to build your enclosure from 3/4" thick MDF (medium density fiberboard). Make sure the enclosure is sealed air tight.

Calculating External Volume

1) To calculate box volume, measure the outside Width x Height x Depth of the enclosure. Example 12" x 14" x 9" = 1512"

2) Next you must convert cubic inches into cubic feet. To do this, You must divide the cubic inch total by 1728". Example 1512 ÷ 1728= .875 Cubic feet

Calculating Internal Volume

1) To calculate the internal (net) volume of the above box you must first multiply the thickness of the wood you are using by Two (2) Example; 3/4" x 2"=1.5"

2) Next Subtract 1.5 from each of the outside measurements of the box.
Width 12-1.5=10.5 Height 14-1.5=12.5 Depth 9-1.5=7.5

3) Multiply the new totals (H x W x D) Example : 10.5 x 12.5 x 7.5=984.375

4) Next you must convert cubic inches into cubic feet.To do this,you must divide the cubic inch total by 1728" Example 984.375÷1728=. 5696 Cubic feet

D12F
12-Inch Flat Subwoofer

04.2012

tech support: www.bossaudio.com/support

BOSS Audio Systems
3451 Lunar Court • Oxnard, CA 93030
www.bossaudio.com
800.999.1236

User's Manual

12-Inch Flat Subwoofer

D12F

PHANTOM SERIES

BOSS® AUDIO SYSTEMS

Thank you for purchasing a BOSS AUDIO subwoofer. It is a state-of-the-art product carefully designed manufactured for vehicle use, and has been thoroughly tested to ensure consistent and reliable performance. If you have any question about the operation of your BOSS AUDIO subwoofer which are not answered by this manual, contact your dealer in the first instance.

Precautions

- Before making holes, check the mounting space with supplied template
- To prevent noise pick-up, keep the wiring of this unis away from motors, high-volage leads and other possible noise source.
- To prevent short-circuit, keep all wiring away from moving parts sharp edges.
- Make sure you have carefully read and understood the installation instruction.

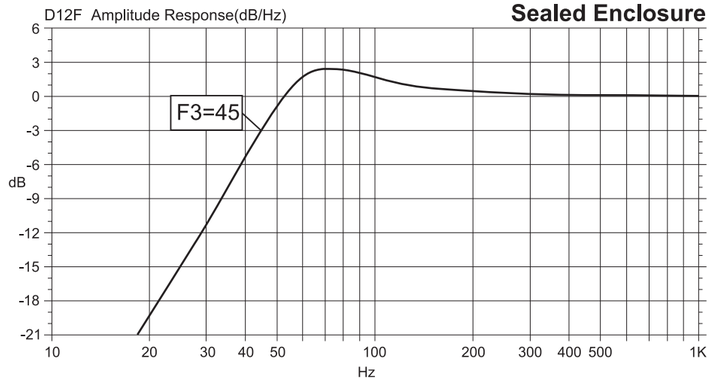
12" (305mm) Subwoofer

(500 Watts RMS Sealed Enclosure)

- **12" (305mm) BLACK POLY-MICA CONE**
- **BUTYL RUBBER SURROUND**
- **2" (51mm) HIGH TEMPERATURE ALUMINUM VOICE COIL**
- **1000 WATTS PEAK / 500 WATTS RMS**
- **FREQUENCY RESPONSE: 28Hz – 2KHz**
- **SENSITIVITY: 95dB (1 WATT/1 METER)**
- **IMPEDANCE: 4 OHM**
- **MOUNTING DEPTH: 3-7/8" (98mm)**

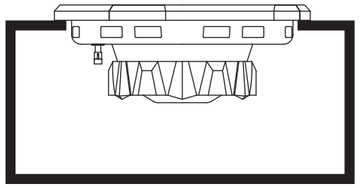
Recommended Enclosures

Please note : Our recommended box volumes are given for internal air requirements.



Frequency

Sealed Enclosure



Box Volume : 1.0 Cu Ft

Box is given as internal air volume including driver displacement